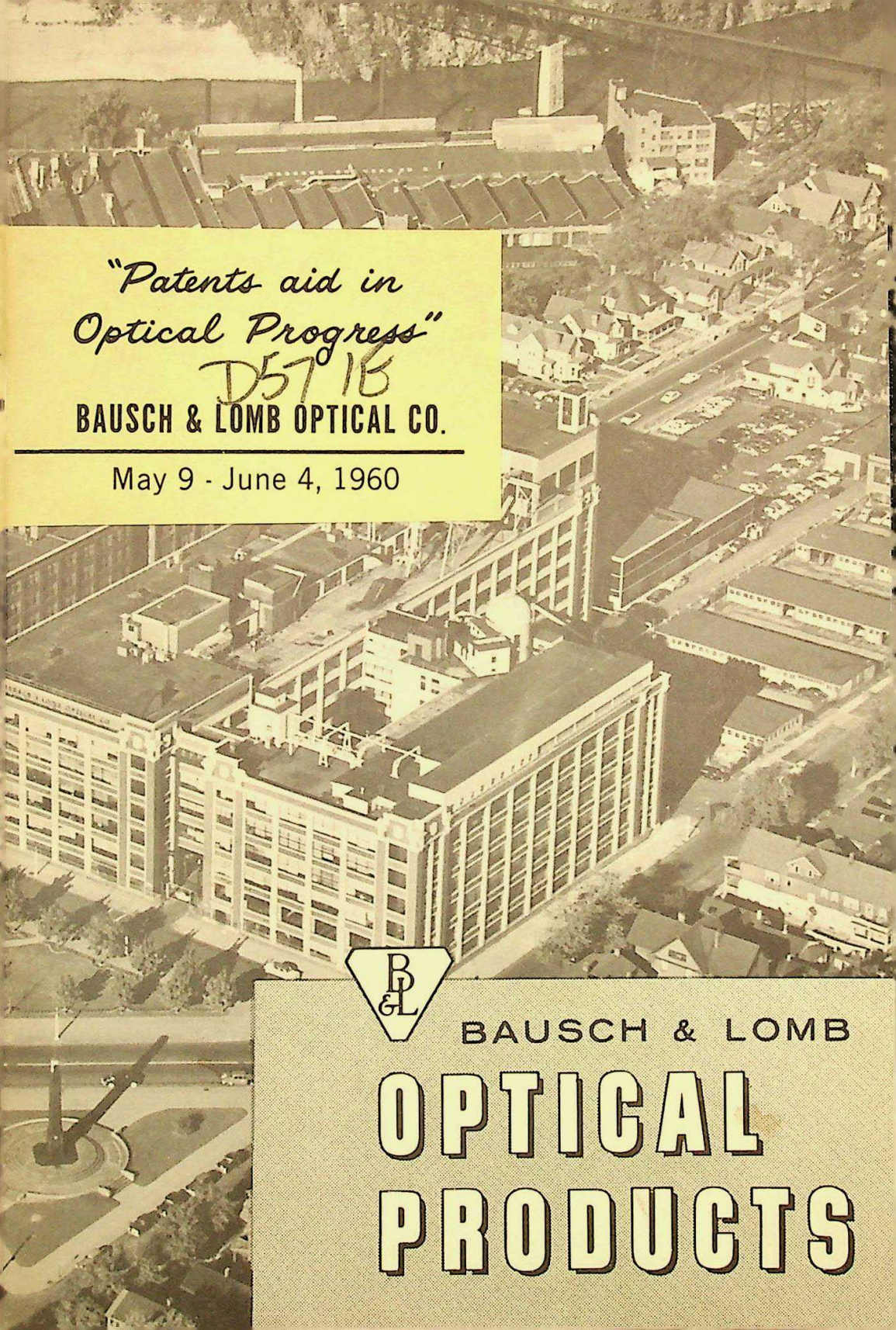




*"Patents aid in
Optical Progress"*

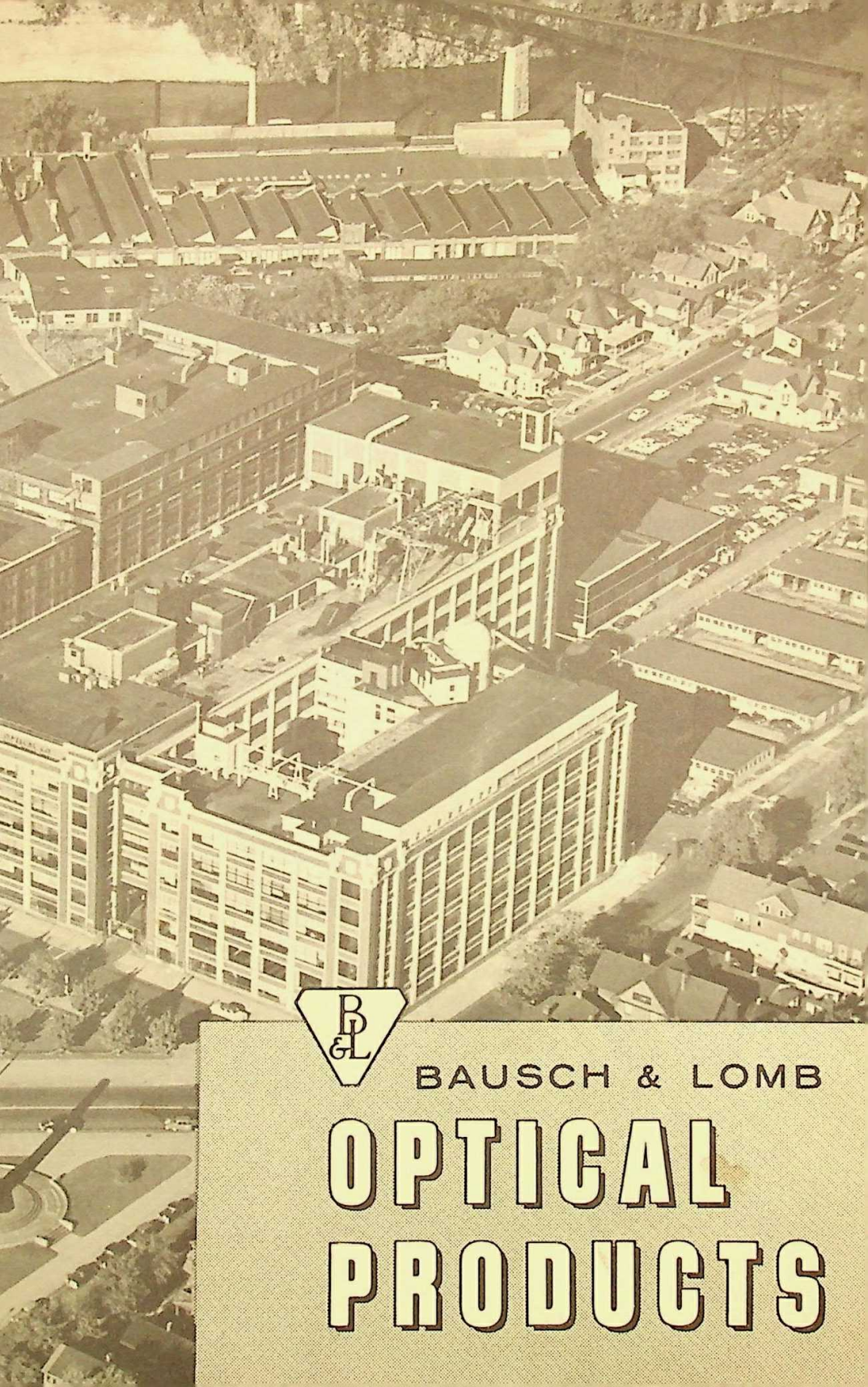
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BAUSCH & LOMB OPTICAL CO.

May 9 - June 4, 1960



BAUSCH & LOMB

**OPTICAL
PRODUCTS**



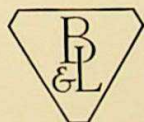
BAUSCH & LOMB

OPTICAL PRODUCTS

Bausch & Lomb Optical Products. . .

serve in many phases of human living,
contributing to progress in technology,
science and vision.

This booklet shows some of the major
Bausch & Lomb lines. Please write for
specific catalogs of any products on which
you would like detailed information.



Bausch & Lomb Optical Co.
Rochester 2, New York, U. S. A.

CONSUMER PRODUCTS

Binoculars

Here are truly the world's finest binoculars by any standard. Respected for their superior optical quality, design and shock resistant construction, the Bausch & Lomb Binocular is the prized possession of sportsmen and professional people the world over. For bird study, traveling, spectator sports, shooting, yachting or nature study---there is a Bausch & Lomb Binocular suited for every use...a binocular that will serve you faithfully, will never wear out and is unconditionally guaranteed for as long as it exists. Catalog G-180.

Readers and Magnifiers

Further evidence of Bausch & Lomb superiority in the manufacture of optical instruments is found in the complete line of Readers and Magnifiers, which are used to increase skills in the shop, home, school, laboratory and studio. Scientifically designed for ease in use, convenience and optimum results. You'll find no better readers and magnifiers anywhere. Catalog I-52.

Rifle Sights

Since the days of the first American colonists, accuracy has been a prime concern with shooters. Manufacturers of arms and ammunition are constantly improving their products to aid in the achievement of true precision shooting. It is for the shooting enthusiast that Bausch & Lomb has made a complete line of fixed and variable-power telescopic rifle sights. There are B&L Rifle Sights matched for every shooting need... rifle sights unequalled in optical sighting qualities and rugged enough to withstand more than the normal abuse they receive when in action. They are dependable scopes, proven superior time and again in actual competition. Write for descriptive catalog, G-181.

Slide Projectors

The first fully automatic projector offering constant focus. In true Bausch & Lomb tradition, the Balomatic Projectors provide the ultimate in performance and pleasure. There's no "popping" out of focus, for each slide is pre-focused by means of an exclusive design feature. Once you start your Balomatic, you never need touch it again---just sit back and relax... enjoy the big, brilliant pictures in sharp, true colors as they appear before you on your screen---the finest automatic-cycling slide projector made today does the entire job of projecting your slides---beautifully, quietly, smoothly. Catalog G-216.



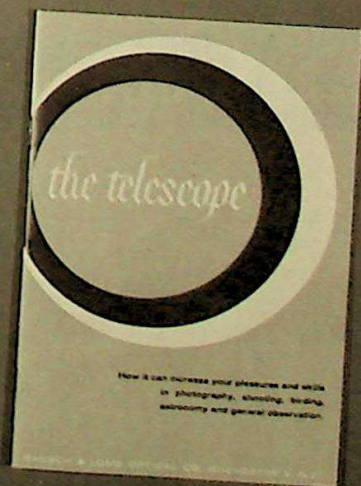
Sun Glasses

Up-to-the-minute styling is maintained in a variety of specialized frame and Ray-Ban lens types to meet a variety of individual needs and preferences for year 'round outdoor wear. Available the world over, with plano or prescription lenses, Ray-Ban Sun Glasses provide safe glare protection, long-wearing comfort and smart good looks. Lenses are in neutral gray (G-15) or "Ray-Ban green-absorptive glass." Catalog A-1592.



Telescopes

The thrill of seeing distant things is enjoyed by more and more people as they discover how clear, sharp and close-up a view can be when seen through a B&L BALscope Telescope. Through the years, this outstanding long-range viewing instrument has become known as an all-purpose family telescope... for specialized hobbies such as bird watching, astronomy and shooting, it is a "must." It's an excellent telephoto lens for camera enthusiasts, and adds immeasurably to your fun on motor trips, hikes in the open, trips to the beach and vacations at summer camps. Manual G-36.



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OPHTHALMIC PRODUCTS



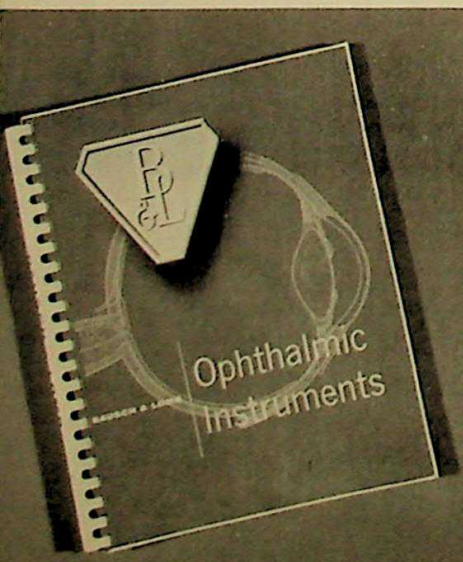
Diagnostic Instruments

Endorsed by leading professional men, Bausch & Lomb Diagnostic Instruments are characterized by outstanding points of superiority achieved through expert design and workmanship. All optical elements and mechanical components are produced and assembled with a precision typical of the manufacture of finest laboratory instruments. In handsome carrying cases, they provide the doctor with the utmost in accuracy and handling ease for eye, ear, nose and throat diagnosis. Booklet H-601.



Frames, Mountings and Cases

Inherent in design of Bausch & Lomb frames and mountings is a superior degree of ophthalmic performance --- fitting, quality, adjustability, durability of shape and finish, and wearer comfort. An expanded program of styling meets the increasing emphasis on eyewear as a distinct fashion accessory. Bausch & Lomb spectacle cases, styled to stay in step with fashion, provide lasting, reliable protection for all frame types. Catalog A-1682.



Ophthalmic Instruments

Modern ophthalmic instrumentation for examination and refraction is a key factor in development of a successful ophthalmic practice. Extreme accuracy, operating ease, and durable styling dictate Bausch & Lomb ophthalmic instruments' planning and design. The goal always is the maximum extension of professional skills, conservation of energies and optimum patient cooperation. The result: a world-wide Bausch & Lomb reputation for leadership in ophthalmic instrument quality. Catalog H-521.

Ophthalmic Laboratory Equipment

Primary function of Bausch & Lomb Laboratory Equipment is the production and inspection of ophthalmic prescription work with true accuracy. However, speed of laboratory service and economy of operation are of vital concern to all shop men. Bausch & Lomb basic equipment accessories for lap cutting and truing, lens centering, edging, heat treating and all other processes are designed to help speed production and reduce costs.

Bench Accessories C-517
Block Cleaning Unit C-536
Plastic Frame Warmer C-523
Lens Dryer C-542

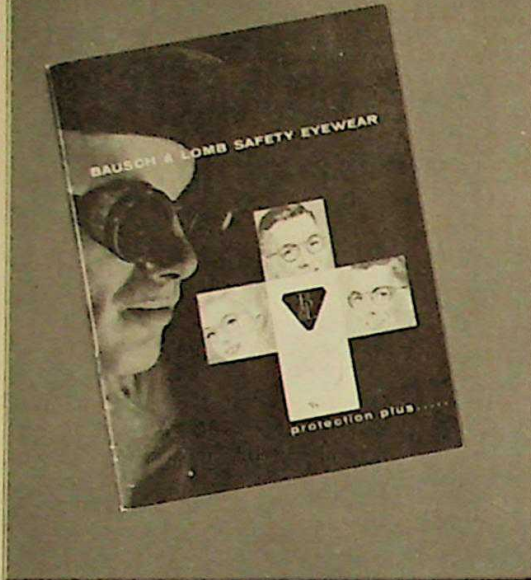
Lens Heat Treating Unit C-534
Surfacing Tools C-527
Vertometer C-530



Ophthalmic Lenses

Every professional need can be filled from the complete range of Bausch & Lomb single vision, bifocal, trifocal and special lens types. Pioneering in the development of corrected-curve Orthogon lenses, advanced multifocal lens segment design and special-characteristic glass types, Bausch & Lomb has established the standards by which ophthalmic lens quality long has been measured. Available in white, Ray-Ban (absorptive) and Soft-Lite (tinted) glass. Catalog B-813





Safety Eyewear

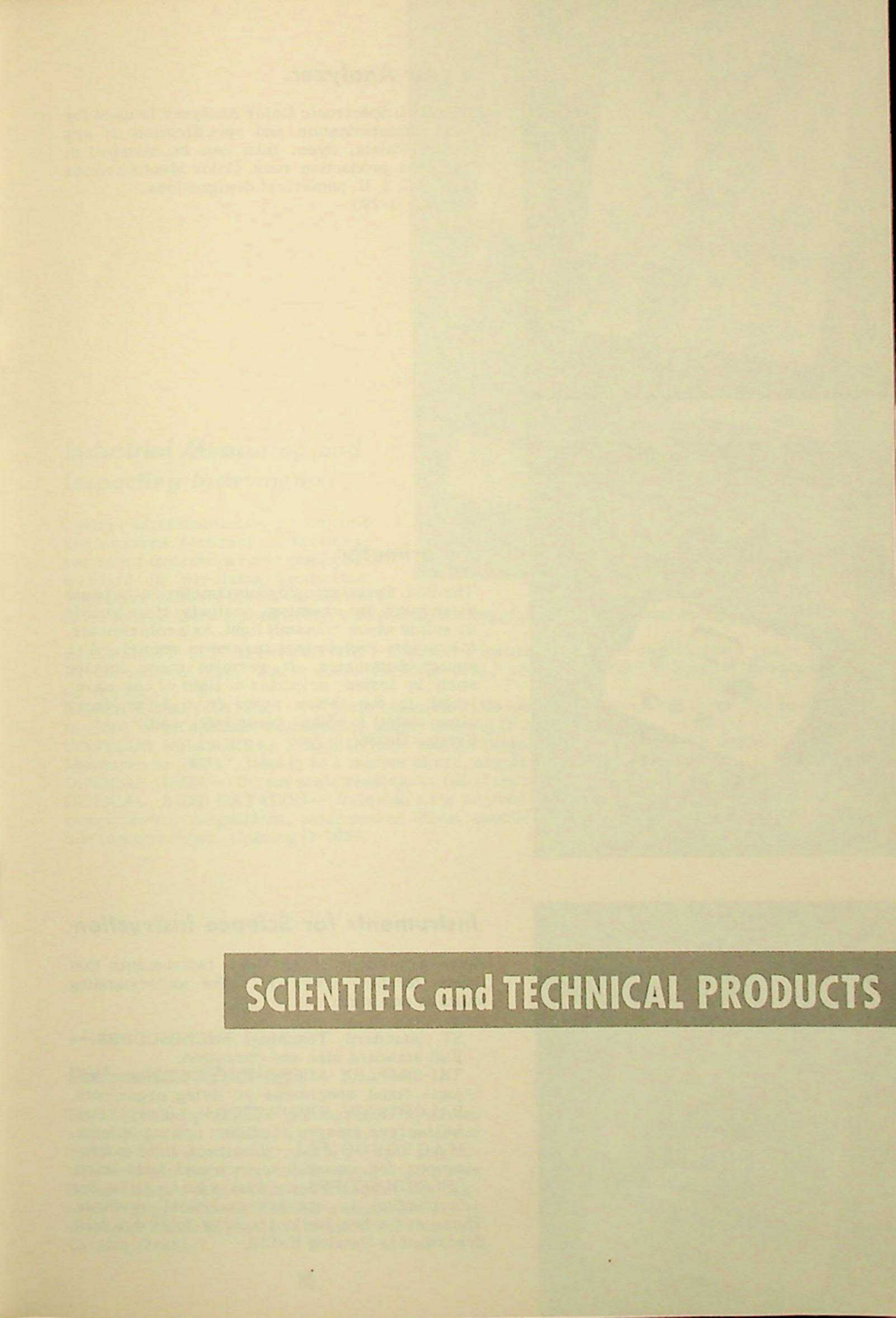
The complete line of B&L Safety Eyewear includes a full range of spectacle types, goggles, and eyeshields in metal, plastic, and combination metal-plastic styles. They're designed to provide maximum protection against all types of industrial hazards including impact, dust, splash, and injurious light energy radiations. All spectacle-type frames can be fitted with Bausch & Lomb Bal-SAFE prescription lenses for maximum safety, visual efficiency and comfort. Catalog A-1550.



Vision Testers

Visual efficiency is paramount in human learning and earning. Bausch & Lomb Ortho-Rater Vision Testers are precision instruments for use in measuring quickly and accurately visual performance of children and adults under key conditions, and identifying those in need of visual attention. There are specially designed types for specific areas of use---industrial workers, school children and motorists---and a master model for use by the professions

- Driver Testing Ortho-Rater - H-615
- Master Ortho-Rater - H-634
- School Vision Tester - H-629



SCIENTIFIC and TECHNICAL PRODUCTS

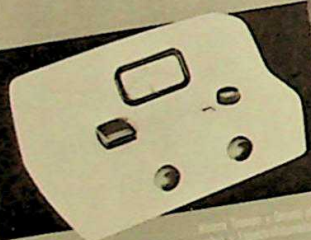
BAUSCH & LOMB SPECTRONIC COLOR ANALYZER



Color Analyzer

The B&L Spectronic Color Analyzer is used for exact determination and specification of any color. Paints, dyes, inks can be matched to previous production runs. Color identifications are in C. I. E. numerical designations. Catalog D-290.

COLORIMETER Spectronic 20 BAUSCH & LOMB



Colorimeter

The B&L Spectronic 20 Colorimeter is the basic instrument for chemical analysis of liquids or solids which transmit light. As a colorimeter, it provides routine test results in seconds. As a spectrophotometer, it permits more intense study by instant selection of light of any wavelength in the entire range from 340m (near ultra-violet) to 950m (near infra-red). Catalog D-266.

Instruments for Science Instruction

Here are some of the B&L instruments that make teaching easier, make understanding quicker and surer.

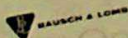
ST (Standard Teaching) MICROSCOPES--- Full standard size and operation.

TRI-SIMPLEX MICRO-PROJECTOR---Projects fixed specimens or living organisms.

BALOPTICON PROJECTORS---Brilliant, full-screen images of slides, opaque objects.

MACROSCOPES---Compact tube microscopes for general science and field trips.

SPECTROSCOPES --- Indispensable for instruction in spectro-analytical methods. These and other basic teaching tools are fully described in Catalog E-152.



Optical
Instruments
FOR SCIENCE INSTRUCTION

Industrial Measuring and Inspecting Instruments

Optical instrumentation saves time and assures accuracy in the measurement and comparison gaging required in precision production. These are some of the B&L products most widely used in inspecting, measuring, testing, fabrication and tool design.



ALIGNMENT INTERFEROMETER---Measures small changes in angle over a range of 30 seconds of arc; direct scale readings to 0.2 seconds (.000006"). Special literature on request.

BENCH COMPARATOR---Projects magnified silhouettes, shows errors instantly; reads to .0001" with optional micrometer stage. Catalog D-269.

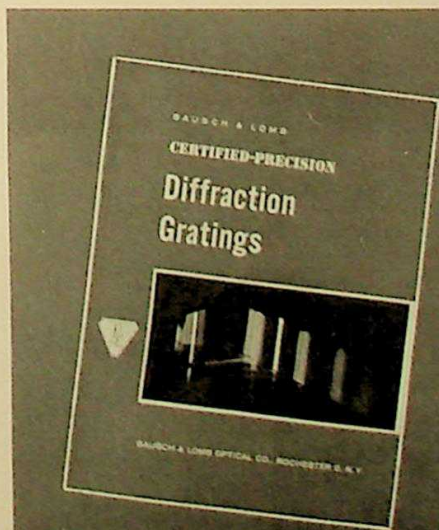
CONTOUR MEASURING PROJECTOR---Shows magnified silhouettes or surface views. Measures to .0001", linear; to 1 minute of arc, angular. Catalog D-293.

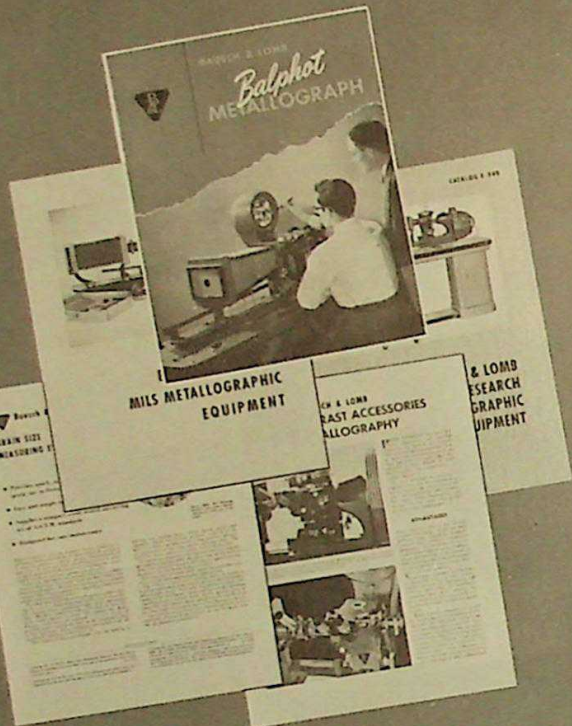
OPTICAL GAGE---Direct scale readings to .0001" over a range of 0" to 3". Catalog D-285.

OPTICAL AIDS CATALOG---Valuable data on time-and-money saving applications of comparators, magnifiers, micrometer discs, special microscopes, microscope bodies, microscope tubes. Catalog D-1059.

Diffraction Gratings

B&L certified precision gratings split light from a specimen into the identifying spectral colors of each of its components. . . with distinct separation between light rays whose wavelengths may be less than a billionth of an inch apart. Applications range from industrial quality control to astronomical analyses to atomic research. Catalog D-261.





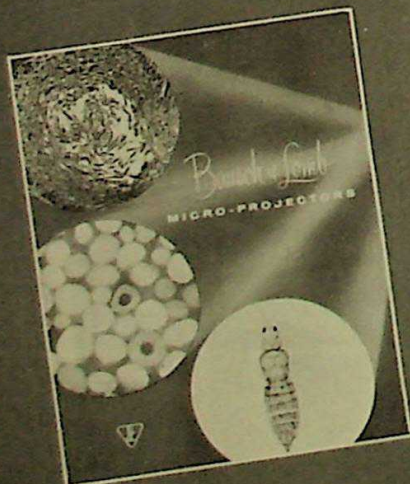
Metallographic Equipment

Bausch & Lomb Metallographs are industry's standard for quality control and research in the processing and application of metals. Structure and non-metallic inclusions show up vividly in enlarged images---by

means of integral microscope, camera and (in the B&L Balphot Metallograph) projection viewing screen. Choice of bright field, dark field, polarized light and phase contrast provides four different views of the same sample, for thorough study and positive identification.

Balphot Metallograph E-232
MILS Metallograph E-28
Research Metallograph E-240

Grain Size Measuring Eyepiece E-239
Phase Contrast Accessories for
Metallography E-228



Micro-projectors

These instruments project vivid screen-sized views of microscopic specimens---invaluable for science instruction, group observation, medical consultation. Some models are complete with integral optical system; others are designed to be with any standard laboratory microscope. Catalog E-20.

Microscope Accessories

Your microscope, science's basic tool, can be adapted to the widest range of specialized studies with Bausch & Lomb accessories. From micrometer eyepieces to graduated mechanical stages, a complete selection of accessories for all standard microscopes is always readily available from B&L.

Dark Field Optical Systems D-122
Interference Microscope Objective D-271
Long Eye Relief Eyepieces D-1080

Micron Measuring Disc D-1049
Microscope Accessories D-184
Phase Contrast Accessories D-104

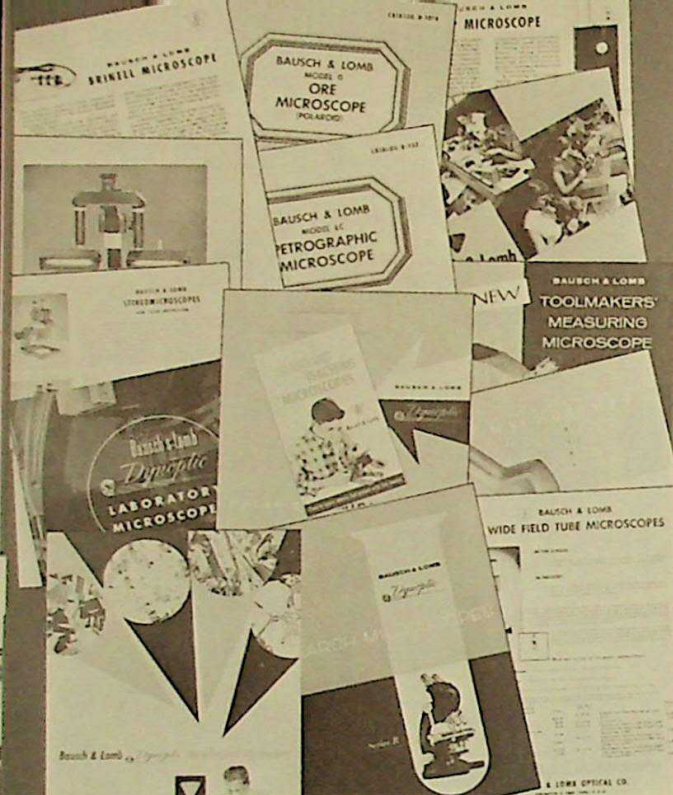


Microscope Illuminators

Whatever your microscopy requirements---from general observation to critical research---visual or photomicrographic---Bausch & Lomb provides a complete line of illuminators to meet your specific needs.

Grating Monochromator - D-259
Interference Filters - D-248
Microscope Illuminators - D-119
Vertical Illuminators - D-181





Microscopes

Several dozen different models of Bausch & Lomb microscopes are in daily use in hospitals, industrial plants, schools and research laboratories throughout the world. Some are even built right into machinery

and assembly lines for small parts assembly, or on-the-spot inspection. Choose for your specific needs from the catalogs listed below.

Model	Catalog	Model	Catalog
Brinell	D-1068	Research (Model DDE)	D-173
Bullet Comparison	D-1017	Research (Model R)	D-1057
Dairy	D-13	Shop	D-189
Laboratory	D-185	ST (Standard Teaching)	D-1074
Metallurgical	D-1053	Stereomicroscopes	D-15
Ore	D-1016	Toolmakers' Measuring	D-282
Petrographic	D-137	Wide Field Macroscopes	D-1052
Polarizing	D-130	Wide Field Tubes	D-1040



Opacimeter

This instrument reads directly in printing opacity, or in contrast ratio, for either white or colored paper.

It has been the standard instrument in the paper and printing industries for many years. Catalog D-209.

Motion Picture Projection Lenses

For today's finest screen images---vivid, brilliant, distortion-free---Bausch & Lomb projection lenses are unsurpassed. B&L Super Cinephor is the standard for theatres and drive-ins. Complete CinemaScope lens series for 55mm, 35mm and 16mm films.

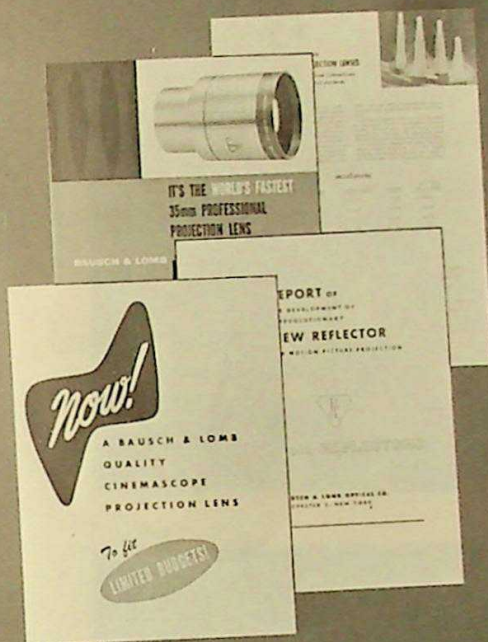
BalCOLD Reflectors transmit more light, less heat---less danger of damage to film.

Super Cinephor Lenses
CinemaScope Lenses (35mm)

E-123
E-118

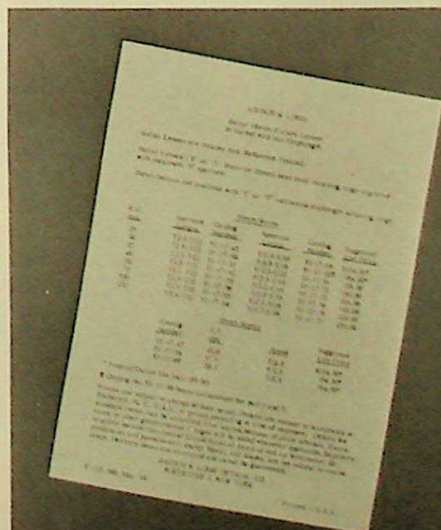
CinemaScope Lenses (16mm)
BalCOLD Reflectors

E-158
E-35



Motion Picture Camera Lenses

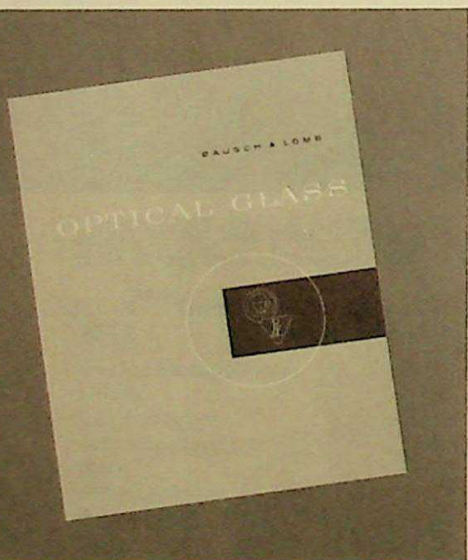
Bausch & Lomb Baltar Lenses are the professional standard for 35mm and 16mm motion pictures. In Hollywood...in television studios...in military, industrial, technical and commercial cinematography---more professional footage is filmed with Baltar than with any other lens. Complete series for all normal ratio and CinemaScope work. Price List F-155.





Optical Components

Hundreds of different optical parts---some of them over-runs of lenses, prisms and reflectors used in standard B&L instruments---are available from Bausch & Lomb catalog stock. Manufactured to the optical industry's highest precision standards, these parts are low in cost because of volume production. Prompt quotation on volume orders of special parts. Catalog L-117.



Optical Glass

As America's only optical company with its own complete glass manufacturing plant, Bausch & Lomb has developed literally thousands of different kinds of glass. New formulae are constantly being developed to meet specific optical and mechanical requirements. Whatever your needs in optical glass, Bausch & Lomb can either supply it from stock or develop it to your specifications---dependable quality at a reasonable price. Catalog E-30.



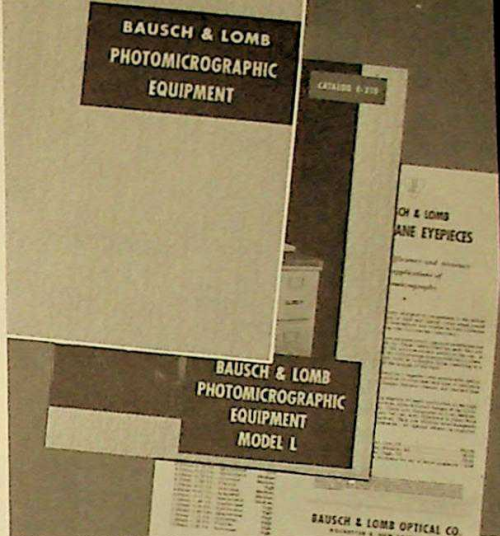
Photogrammetric Equipment

Photogrammetry is the science of producing topographical maps by tracing contour lines from three-dimensional projections of aerial photographs. Bausch & Lomb Multiplex and Balplex equipments are cutting months of mapping time to days, cutting costs correspondingly---in highway construction, building development layouts, public works programs, area surveys---wherever accurate maps are needed quickly. Catalogs F-301 and F-303.

Photomicrographic Equipment

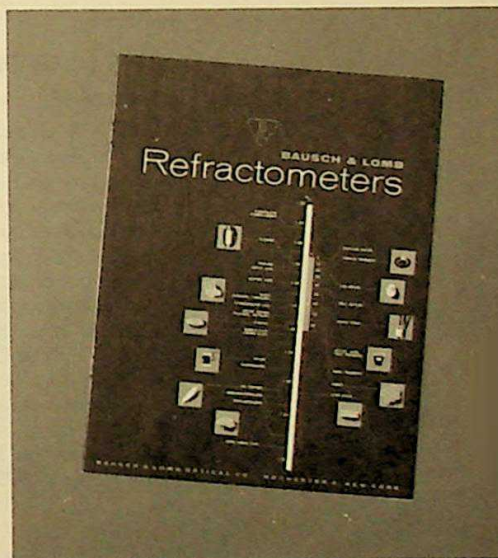
Anything you can see with your microscope can be photographed with Bausch & Lomb photomicrographic equipment. You have permanent photographic records for consultation, projection, reference. Wide choice of equipment permits still and motion picture photography, color and black-and-white, with film sizes from 16mm to 5" x 7".

Photomicrographic Equipment - E-21
Photomicrographic Equipment,
Model L-E-210
Ultraplane Eyepieces - E-245



Refractometers

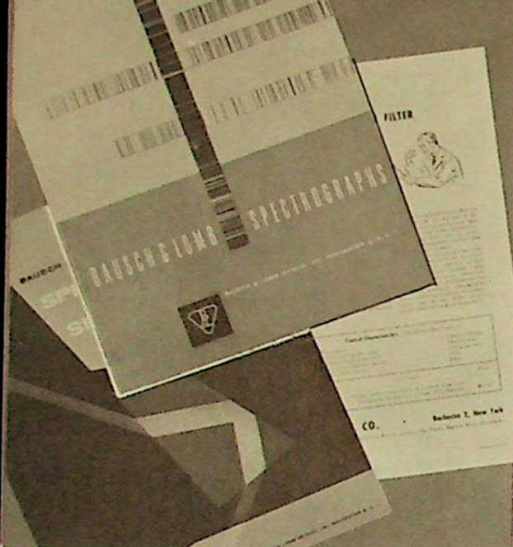
Refractometry determines chemical composition of liquids and solids by measurement of refractive index. B&L Refractometers are standard equipment in the many fields of science and industry that use this quick, reliable method. From hand-held "spot-check" instruments to the ultimate in laboratory equipment, Bausch & Lomb offers a most complete line to fill specific needs. Catalog D-202.



Saccharimeter

The Saccharimeter reads directly in international sugar degrees, thus conversion tables are unnecessary. This coupled with the instrument's ease of cleaning and accuracy have made it a top favorite in the sugar industry. Catalog D-229.





Spectroscopes and Spectrographs

Spectrography "fingerprints" the elements in any sample by photographing their identifying spectra. Speed and dependability of B&L spectrographs have made them the world-wide standard---for chemical analysis and research---in factories, hospitals, processing plants, crime labs---wherever chemical composition must be determined quickly and beyond question.

Spectrographs - D-277

Spectroscopes and Spectrometers - D-26

Wedge Interference Filters - D-201

Affiliated Companies

- Argentina-Bausch & Lomb Argentina, S.A., Buenos Aires
- Australia-U. K. Optical Bausch & Lomb Pty. Ltd., Melbourne
- U. K. Optical Bausch & Lomb Pty. Ltd., Sydney
- Brazil-Bausch & Lomb do Brasil, Rio de Janeiro
- Bausch & Lomb do Brasil, Sao Paulo
- Bausch & Lomb do Brasil, Porto Alegre
- Bausch & Lomb do Brasil, Recife
- Canada-Bausch & Lomb Optical Co., Ltd., Toronto
- Bausch & Lomb Optical Co., Ltd., Montreal
- England-Bausch & Lomb Optical Co., Ltd., London
- U. K. Optical Bausch & Lomb, Ltd., London
- U. K. Optical Bausch & Lomb, Ltd., Lurgan, North Ireland
- Sweden-Aga Bausch & Lomb A.B., Stockholm
- U.S.A.-Applied Research Laboratories, Inc., Glendale, Calif.
- Applied Research Laboratories, Inc., Lausanne, Switzerland

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 Chattanooga, Tenn., 311 Chattanooga Bank Bldg.
 Chicago, Ill., 740 W. Washington Blvd.
 Dallas, Tex., 739 Pearl St. N.
 Kansas City, Mo., 1233 Grand Ave.
 Los Angeles, Cal., 314 W. Sixth St.
 Minneapolis, Minn., 808 Nicollet Ave.
 New York, N. Y., 730 Fifth Ave.
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 San Francisco, Cal., 20 Jones Street
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BAUSCH & LOMB OPTICAL CO.
ROCHESTER 2, NEW YORK

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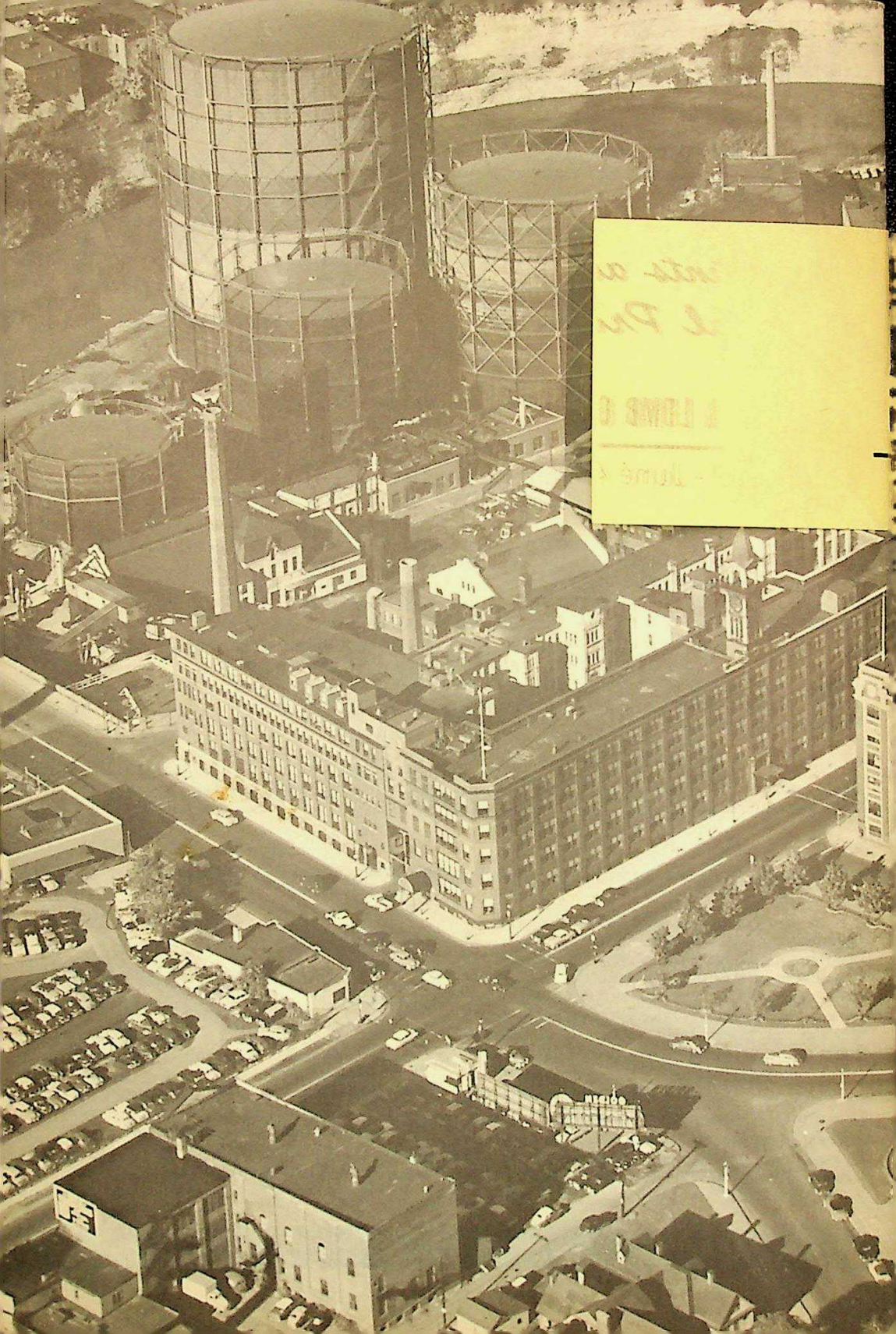
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the P
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- home